

FIG. 1

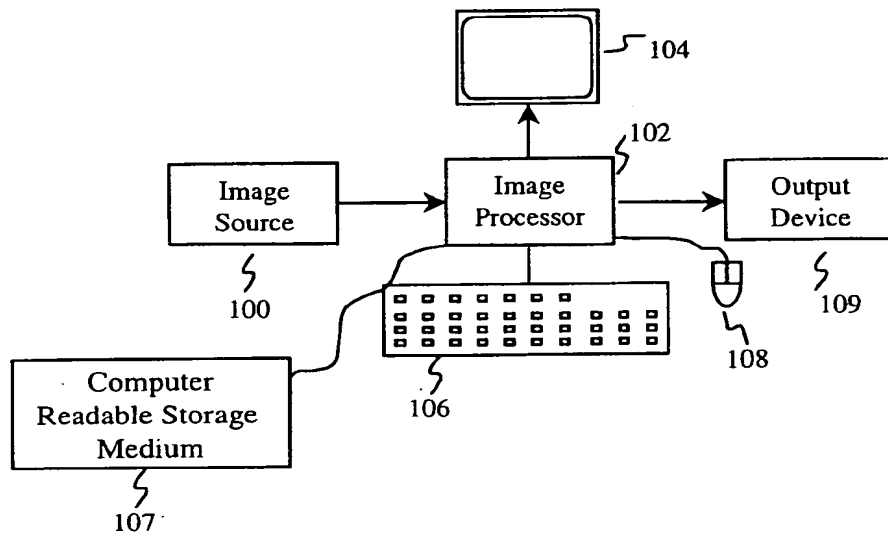


FIG. 1

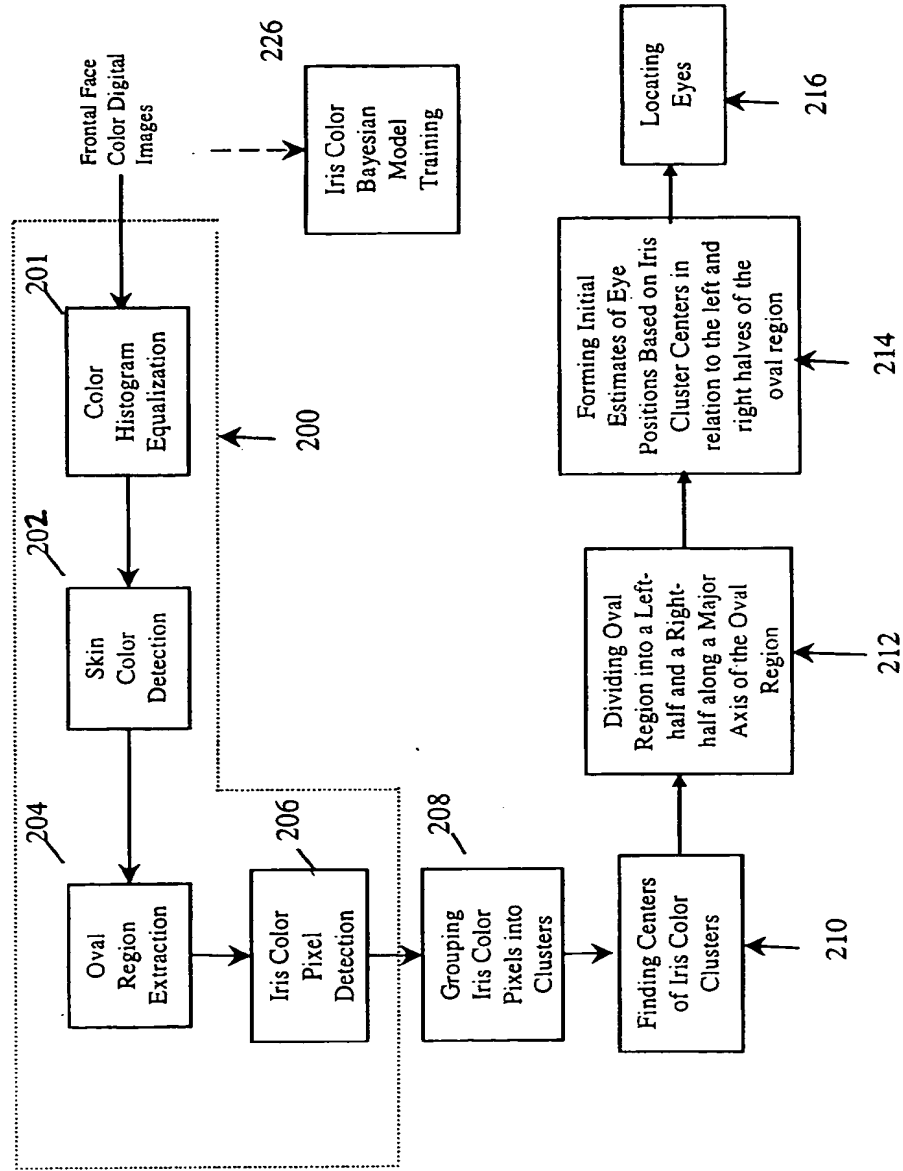


FIG. 2

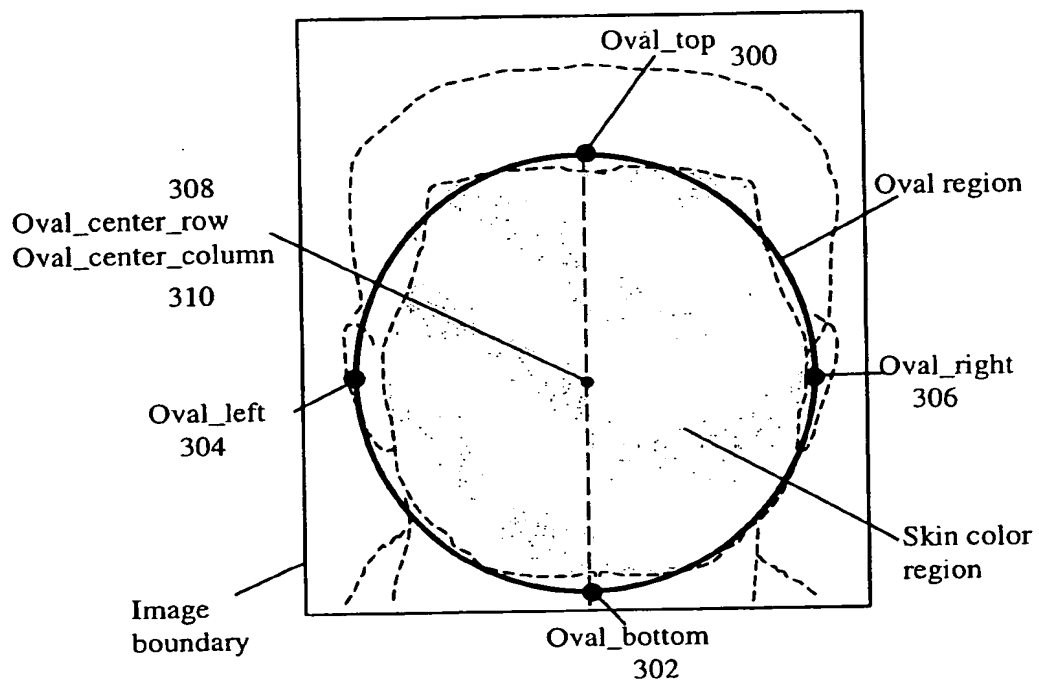


FIG. 3

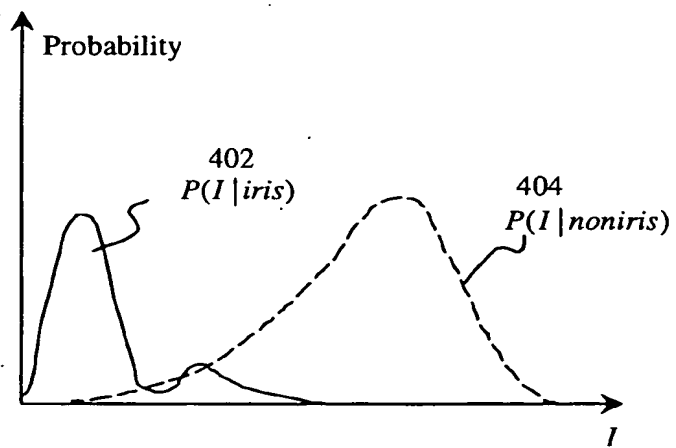


FIG. 4

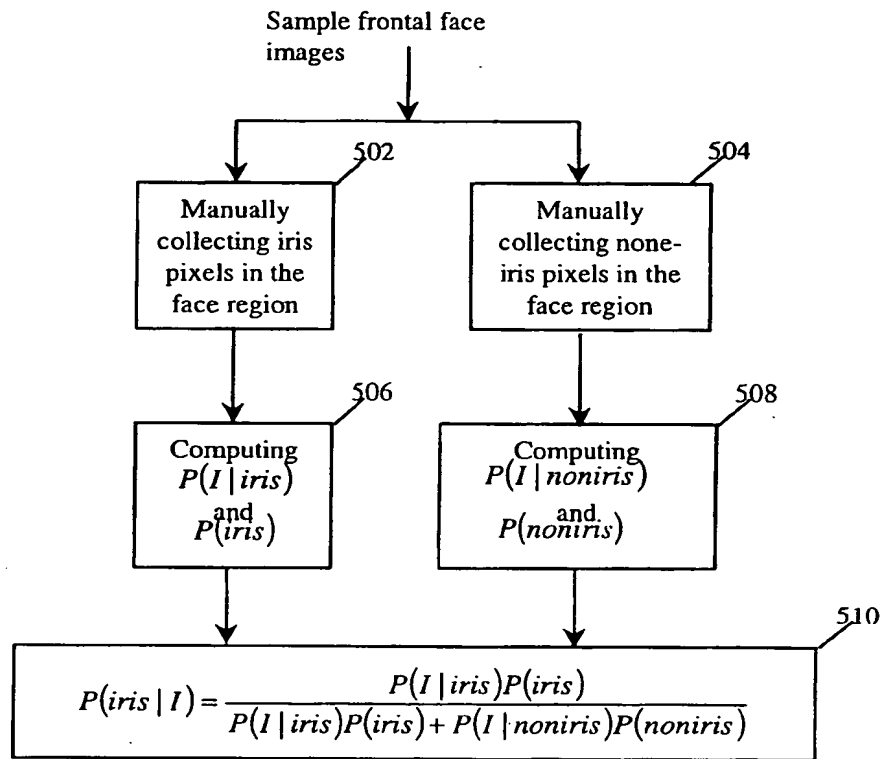


FIG. 5

FIG. 6

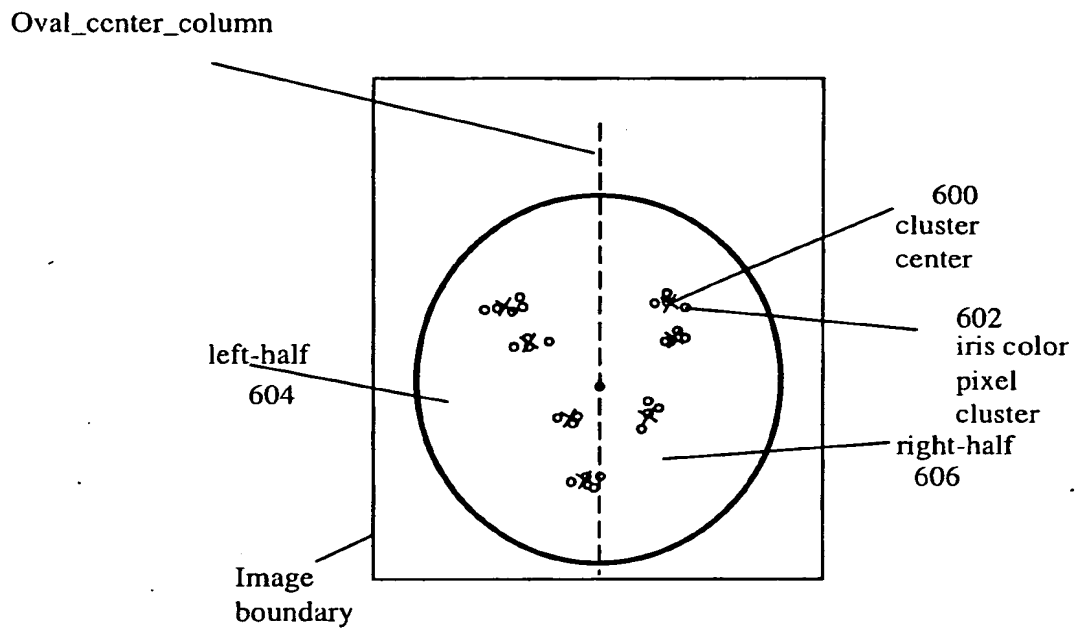


FIG. 6

FIG. 7a1

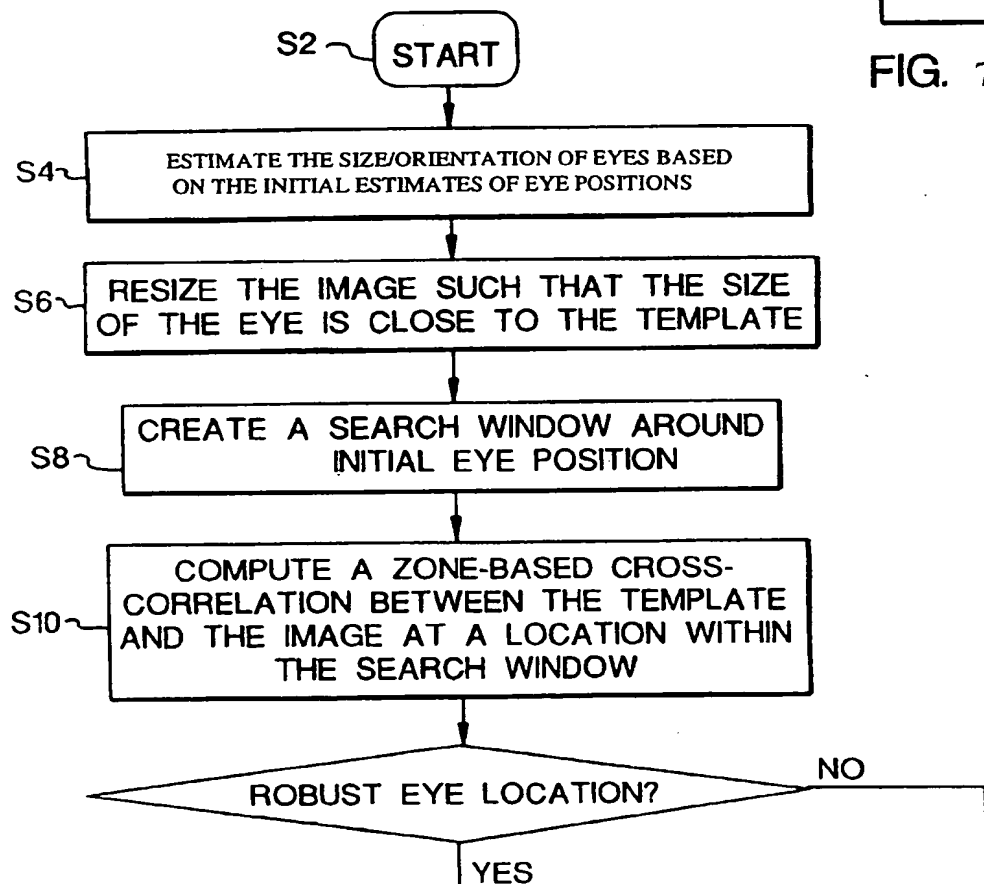


FIG.7a1

FIG.2a2

FIG. 7a

TOP SECRET

FOOTNOTES: 05427-0560

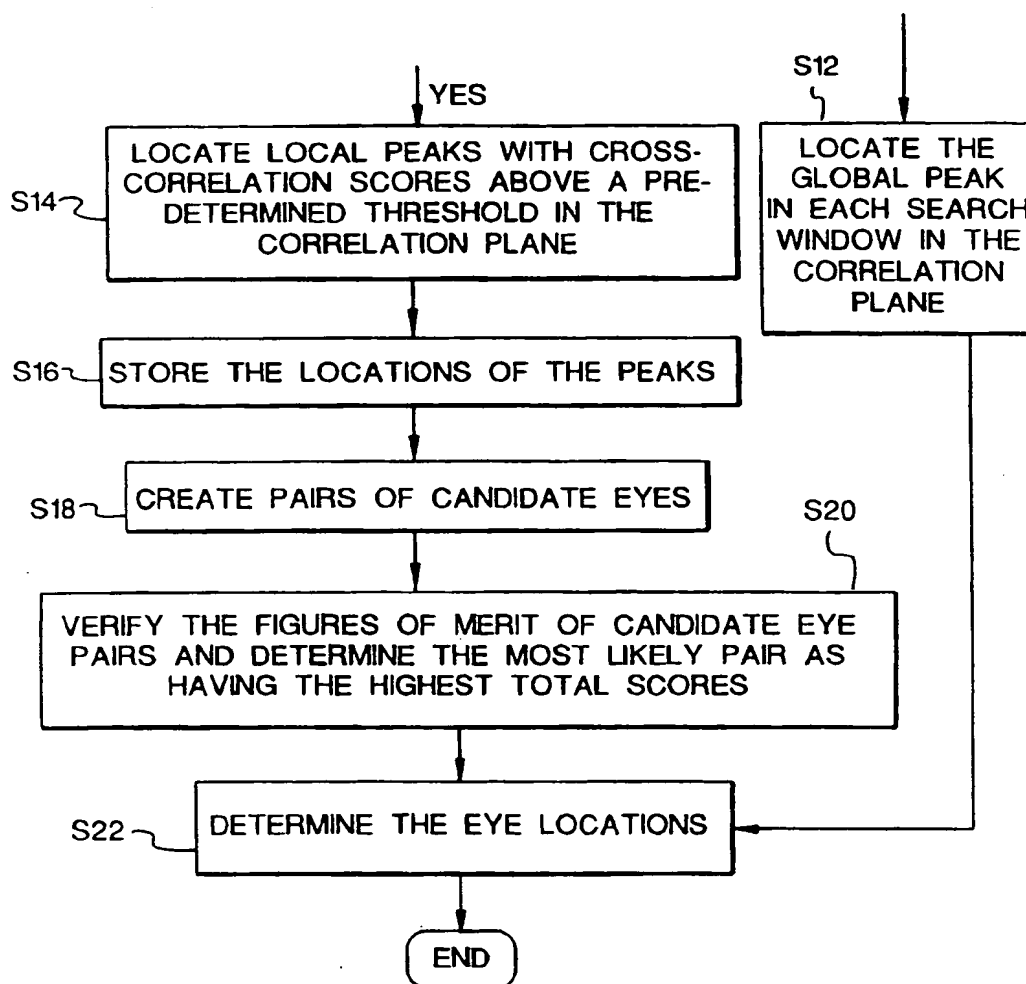


FIG. 7 a2

FIG7 b1

FIG.7b2

FIG. 7 b1

FIG.7b

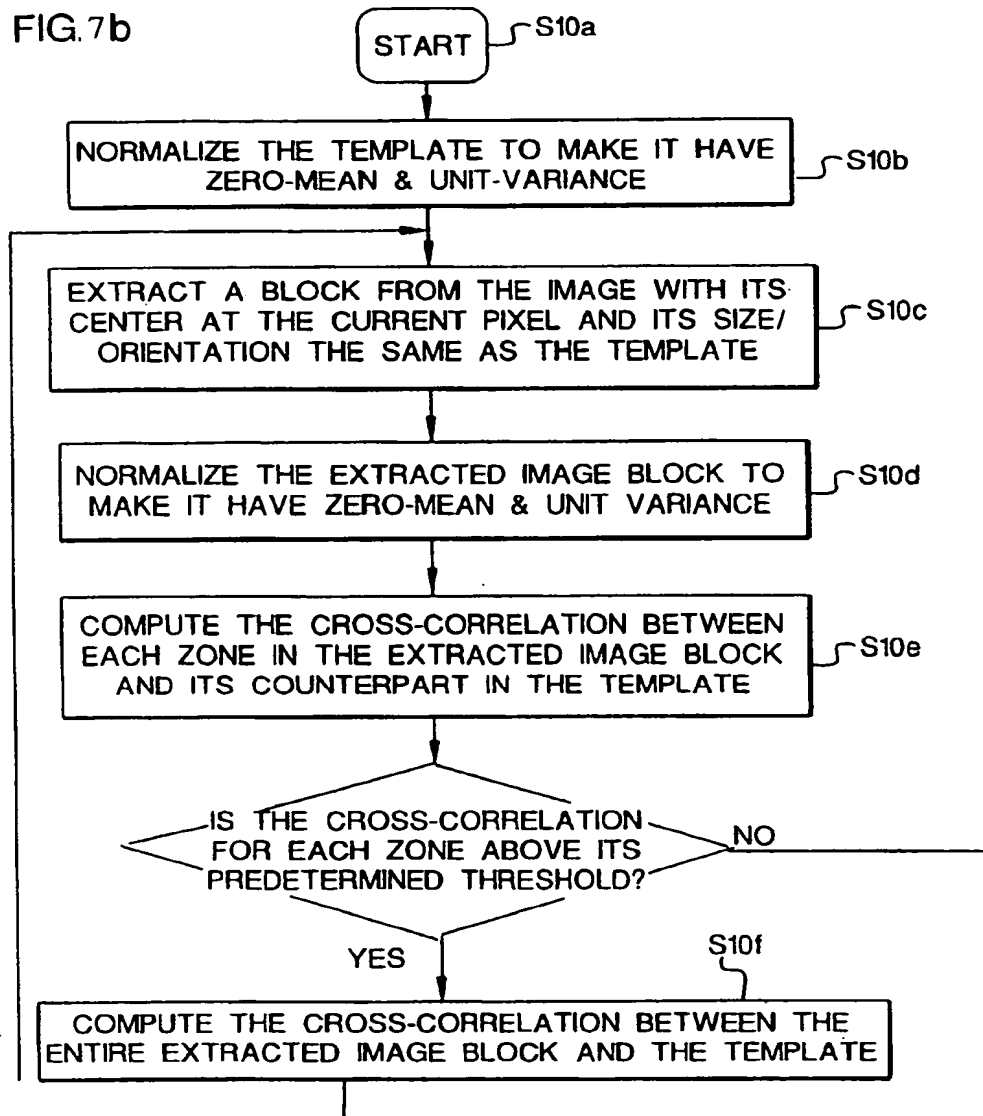


FIG. 7b1

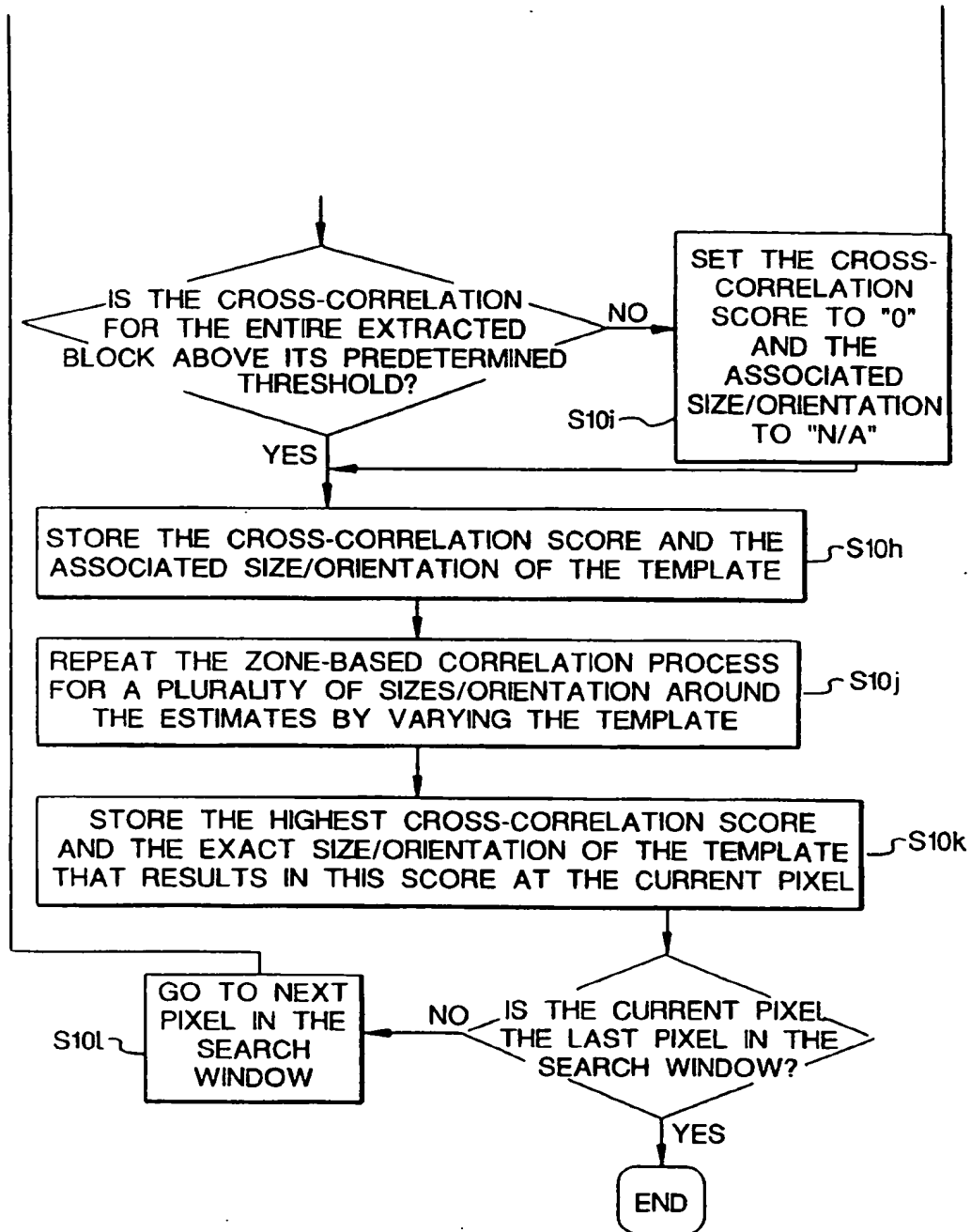


FIG. 7b2

00004373-061904
FIG. 8

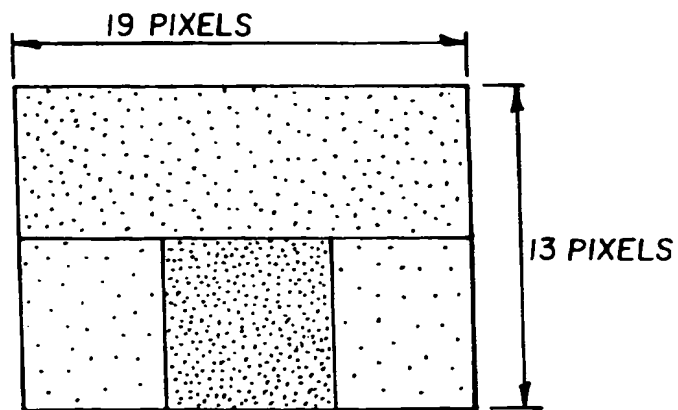


FIG. 8

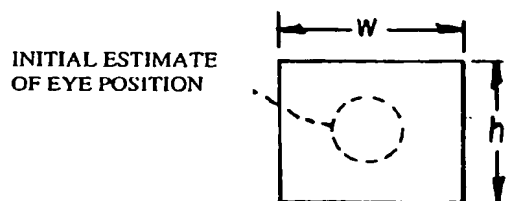
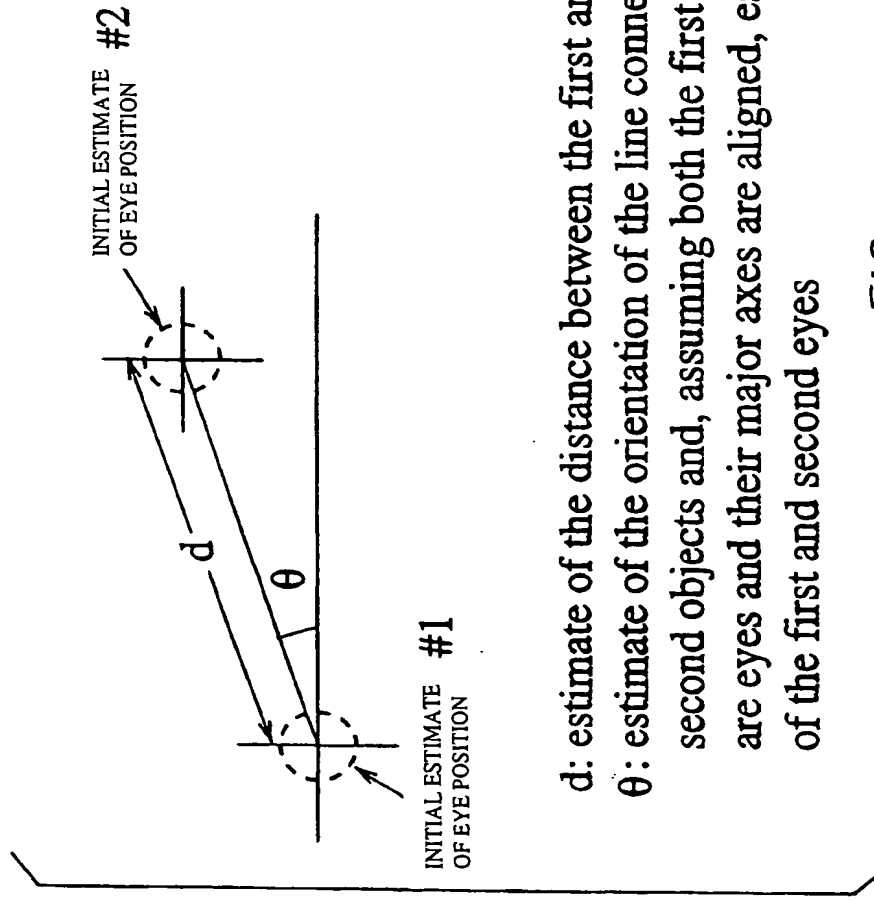
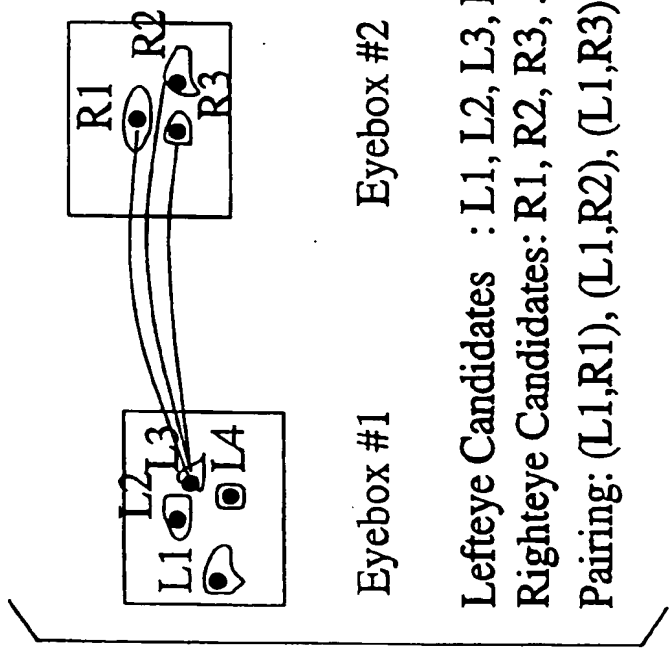


FIG. 10



d : estimate of the distance between the first and second objects
 θ : estimate of the orientation of the line connecting the first and second objects and, assuming both the first and second objects are eyes and their major axes are aligned, estimate orientation of the first and second eyes

FIG. 9



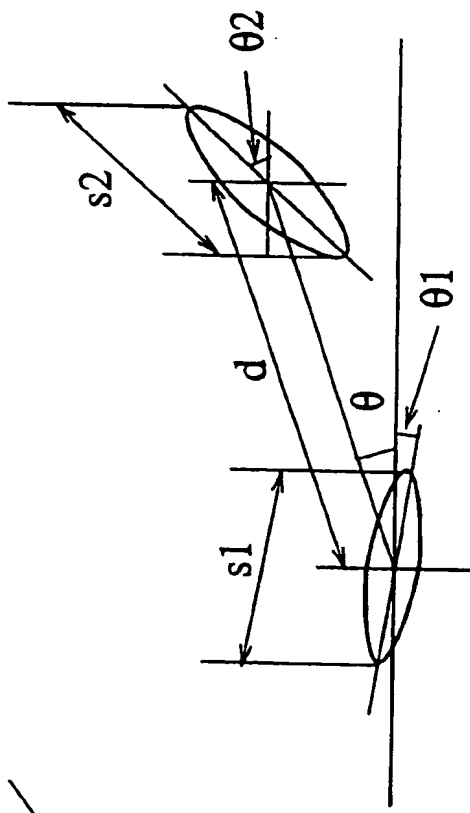
Eyebox #1 Eyebox #2

Lefteye Candidates : L1, L2, L3, L4, ...

Righteye Candidates: R1, R2, R3, ...

Pairing: (L1,R1), (L1,R2), (L1,R3), ..., (L2, R1), (L2, R2), ...

FIG. 11



- θ_1 : orientation of the first object (in this case negative)
- θ_2 : orientation of the second object (in this case positive)
- θ : orientation of the line connecting the centers of the first and second objects
- d : distance between the centers of the first and second objects
- s_1 : size of the first object
- s_2 : size of the second object

FIG. 12

106T90-2278660

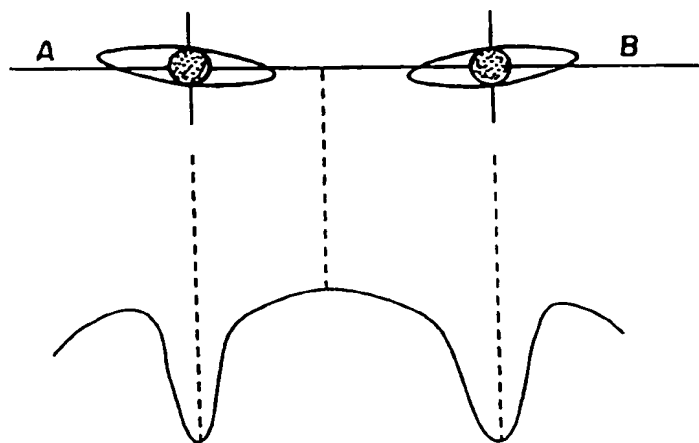
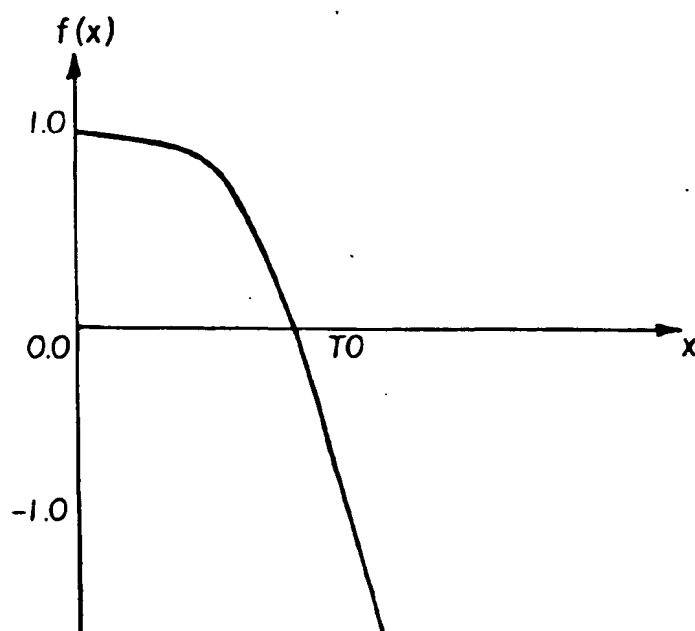


FIG. 13



A PREFERRED SCORING FUNCTION $f(x)$

FIG. 14

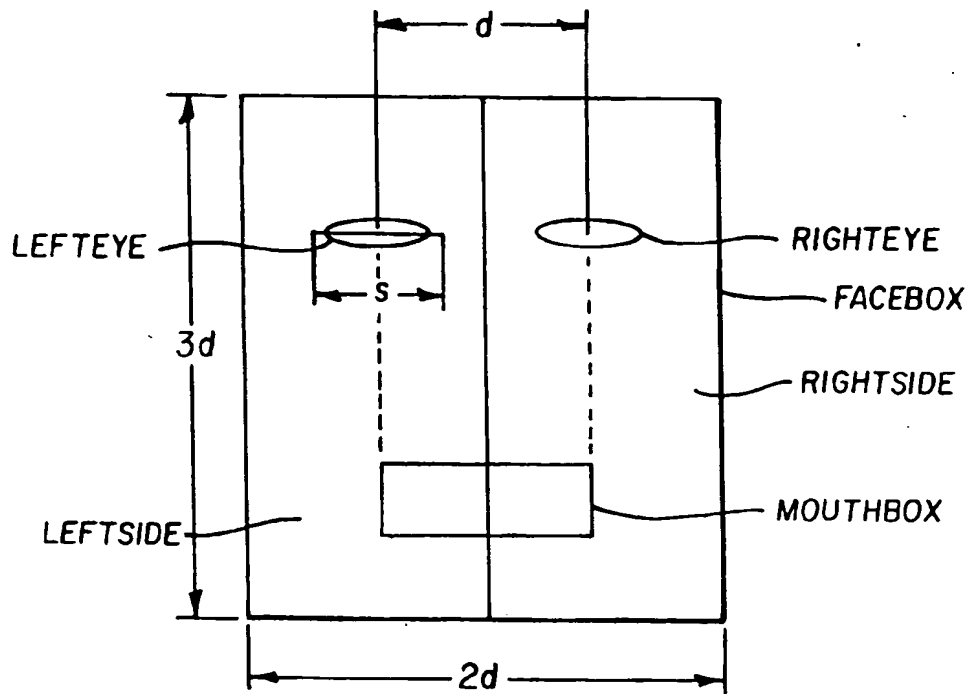


FIG. 15